

# **EAST FORK OF ROCK CREEK DAM**

## **Fact Sheet**

### **PROJECT DESCRIPTION**

- ♦ Located on the East Fork of Rock Creek 15 miles south of Phillipsburg on the Beaverhead-Deerlodge National Forest in Granite Co.
- ♦ Owned by DNRC & managed by SWPB under a U.S. Forest Service Special Use Permit.
- ♦ Operated by Flint Creek Water Users Association since 1938
  
- ♦ Project consists of:
  - ♦ Earthen Embankment Dam, 88 feet high, 1083 feet long.
  - ♦ Concrete lined chute spillway with flip bucket energy dissipater
  - ♦ 54-inch horseshoe-shaped 472 foot-long reinforced concrete outlet tunnel, with one 54-inch diameter emergency slide gate and one 54-inch butterfly operating gate
  - ♦ The gate valves are operated from a 7-foot diameter tower on the dam crest.
  
- ♦ Original construction completed in 1936
- ♦ Reservoir stores 16,040 acre-feet at normal full pool covering 390 acres
- ♦ Provides irrigation water for 53 farms and ranches
- ♦ The dam is a “high hazard” structure, which means that its failure could cause loss of life. Farms and ranches, roads, bridges, and utilities are located in the flood plain.

### **PROJECT DEFICIENCIES**

- ♦ The spillway is in poor condition and does not meet current safety standards. Replacement is needed due to concrete deterioration from age and insufficient spillway capacity.
- ♦ Excessive seepage may require the installation of additional drains or relief wells.

### **PROPOSED REHABILITATION**

- ♦ Construct a new spillway that meets or exceeds current safety standards.
- ♦ Investigate the need for additional seepage collection and drains. Install additional drains and seepage collection if needed.

**Estimated Project Cost:** Could exceed \$3,000,000



Downstream face



Spillway



Outlet



Upstream face

